

ABSTRACT

A method and system for generating a pseudo-random bit series based on a given polynomial of order N , for M parallel communication lines using a machine comprising: N flip-flop machines and logic circuit. The flip-flop machines is initialized according to a given series of N bits. The logic circuit calculates a series of the next $M+N$ bits using the N flip flop machines as function of the current N bit series wherein the function is based on two pre-generated equations. These equations are generated by recursive calculation of matrix array of order $N \times M$ according the given polynomial equation.

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